

**A METHOD AND SYSTEM FOR PARALLEL HASH TRANSFORMATION  
FOR AN ADDRESS INPUT**

**ABSTRACT OF THE DISCLOSURE**

5        A method for performing a parallel hash transformation in a network device to generate a hash pointer for an address input. The method includes the step of receiving an address input. The address input is apportioned among a plurality of hashing units. The hashing units are configured to operate in parallel. A hash transformation is executed on the apportioned

10      address inputs in parallel, resulting in a corresponding plurality of hashing unit outputs. The hashing unit outputs are combined to generate a hash result corresponding to the address input.

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